Project Title	Funding	Institution
Functional anatomy of face processing in the primate brain	$1,660,304	National Institutes of Health
The cognitive neuroscience of autism spectrum disorders	$1,074,095	National Institutes of Health
SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	$798,912	University of Kentucky Research Foundation
Impact of SynGAP1 mutations on synapse maturation and cognitive development	$789,981	The Scripps Research Institute - Florida
Function and dysfunction of neuroligins in synaptic circuits	$750,000	Stanford University
Computational characterization of language use in autism spectrum disorder	$738,723	Oregon Health & Science University
Novel computational methods for higher order diffusion MRI in autism	$725,545	University of Pennsylvania
Kinetics of drug macromolecule complex formation	$712,921	University of California, San Diego
Mathematical cognition in autism: A cognitive and systems neuroscience approach	$652,461	Stanford University
Dynamic regulation of Shank3 and ASD	$646,316	Johns Hopkins University
The role of the new mTOR complex, mTORC2, in autism spectrum disorders	$625,998	Baylor College of Medicine
Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism	$615,849	University of California, Irvine
Brain bases of language deficits in SLI and ASD	$614,180	Massachusetts Institute of Technology
Characterizing mechanistic heterogeneity across ADHD and autism	$611,788	Oregon Health & Science University
The social brain in schizophrenia and autism spectrum disorders	$594,733	Hartford Hospital
Taste, smell, and feeding behavior in autism: A quantitative traits study	$570,508	University of Rochester
Executive function in children with typical and atypical language abilities	$564,177	University of Wisconsin - Madison
Sensory processing and integration in autism	$548,158	Albert Einstein College of Medicine of Yeshiva University
Function and structure adaptations in forebrain development	$541,770	University of Southern California
Neurobiological correlates of language dysfunction in autism spectrum disorders	$535,052	The Mind Research Network
Cell adhesion molecules in CNS development	$534,562	The Scripps Research Institute - California
Development of the functional neural systems for face expertise	$507,685	University of California, San Diego
Genetic studies of autism-related Drosophila neurexin and neuroligin	$489,104	University of North Carolina at Chapel Hill
Cell adhesion molecules in autism: A whole-brain study of genetic mouse models	$485,438	Cold Spring Harbor Laboratory
Analysis of Shank3 complete and temporal and spatial specific knockout mice	$481,448	Duke University
Function of neurexins	$473,710	Stanford University
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	$470,003	Sloan-Kettering Institute for Cancer Research
High-throughput DNA sequencing method for probing the connectivity of neural circuits at single-neuron resolution	$464,475	Cold Spring Harbor Laboratory
Networked cortical responses to movement associated with ASD	$449,700	University of Washington
Integrative functions of the planum temporale	$440,810	University of California, Irvine

Project Title	Funding	Institution
Behavioral and neural processing of faces and expressions in nonhuman primates	$435,600	Emory University
Glial control of neuronal receptive ending morphology	$418,275	The Rockefeller University
Social brain networks for the detection of agents and intentions	$414,688	Yale University
Morphogenesis and function of the cerebral cortex	$409,613	Yale University
High throughput screen for small molecule probes for neural network development	$405,000	Johns Hopkins University
Shank3 in synaptic function and autism	$401,250	Massachusetts Institute of Technology
Motor skill learning in autism	$395,908	Kennedy Krieger Institute
Vasopressin receptor polymorphism and social cognition	$395,156	Georgia State University
Auditory and integrative functions of the prefrontal cortex	$387,285	University of Rochester
Neuroimaging of top-down control and bottom-up processes in childhood ASD	$387,066	Georgetown University
Typical and pathological cellular development of the human amygdala	$385,000	University of California, Davis
Molecular mechanisms of the synaptic organizer alpha-neurexin	$383,267	University of Michigan
Imaging signal transduction in single dendritic spines	$382,200	Duke University
Towards an endophenotype for amygdala dysfunction	$380,304	California Institute of Technology
Synaptic processing in the basal ganglia	$377,815	University of Washington
Linking local activity and functional connectivity in autism	$370,304	San Diego State University
Canonical neural computation in autism spectrum disorders	$365,741	New York University
Cellular density and morphology in the autistic temporal human cerebral cortex	$363,672	University of California, Davis
Neural basis of behavioral flexibility	$360,214	Mount Sinai School of Medicine
Engrailed targets and the control of synaptic circuits in Drosophila	$352,100	University of Puerto Rico Medical Sciences Campus
Development of face processing expertise	$351,984	University of Toronto
Learning and plasticity in the human brain	$351,533	National Institutes of Health
Psychobiological investigation of the socioemotional functioning in autism	$347,490	Vanderbilt University Medical Center
The impact of Pten signaling on neuronal form and function	$346,014	Dartmouth College
Physiology of attention and regulation in children with ASD and LD	$341,013	Seattle Children's Hospital
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	$336,922	Brandeis University
Defining cells and circuits affected in autism spectrum disorders	$336,872	The Rockefeller University
Atypical architecture of prefrontal cortex in young children with autism	$335,103	University of California, San Diego
The microstructural basis of abnormal connectivity in autism	$332,991	University of Utah
Inhibitory mechanisms for sensory map plasticity in cerebral cortex	$328,644	University of California, Berkeley

Project Title	Funding	Institution
Statistical analysis of biomedical imaging data in curved space	$326,528	University of North Carolina at Chapel Hill
Molecular dissection of calmodulin domain functions	$321,473	University of Iowa
Magnetoencephalographic studies of lexical processing and abstraction in autism	$321,156	University of Pennsylvania
Impairments of theory of mind disrupt patterns of brain activity	$321,000	Massachusetts Institute of Technology
Social and affective components of communication	$317,715	Salk Institute For Biological Studies
ACE Center: Neuroimaging studies of connectivity in ASD	$315,268	Yale University
ACE Center: Ontogeny and neural basis of social visual engagement in monkeys	$314,068	Emory University
Caspr2 as an autism candidate gene: A proteomic approach to function & structure	$312,000	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School
Neuronal basis of vicarious reinforcement dysfunction in autism spectrum disorder	$310,081	Duke University
Cerebellar modulation of frontal cortical function	$302,306	University of Memphis
Imaging PTEN-induced changes in adult cortical structure and function in vivo	$300,156	University of California, Los Angeles
Alterations in brain-wide neuroanatomy in autism mouse models	$300,000	Cold Spring Harbor Laboratory
RI: Small: Addressing visual analogy problems on the raven's intelligence test	$284,454	Georgia Tech Research Corporation
Neural synchronydysfunction of gamma oscillations in autism	$265,073	University of Colorado Denver
Young development of a novel PET ligand for detecting oxytocin receptors in brain	$261,360	Emory University
A functional genomic analysis of the cerebral cortex	$256,413	University of California, Los Angeles
Neural mechanisms of tactile sensation in rodent somatosensory cortex	$255,940	University of California, Berkeley
Autism and the insula: Genomic and neural circuits	$254,696	California Institute of Technology
Evaluating the time-dependent unfolding of social interactions in autism	$252,622	University of Cincinnati
Modeling 5-HT-absorbing neurons in neuropathology of autism	$250,500	Albert Einstein College of Medicine of Yeshiva University
Retrograde synaptic signaling by Neurexin and Neuroligin in C. elegans	$250,000	Massachusetts General Hospital
Corticothalamic circuit interactions in autism	$250,000	Boston Children's Hospital
Investigating brain connectivity in autism at the whole-brain level	$249,001	Indiana University
Met signaling in neural development and circuitry formation	$249,000	University of Arizona
Testing the hyperspecificity hypothesis: A neural theory of autism	$247,018	Children's Hospital of Philadelphia
Neocortical mechanisms of categorical speech perception	$239,255	University of California, San Francisco
Influence of attention and arousal on sensory abnormalities in ASD	$232,500	University of California, San Diego
Effect of paternal age on mutational burden and behavior in mice	$222,000	University of North Carolina at Chapel Hill

Project Title	Funding	Institution
Neurobiological signatures of audiovisual speech perception in children in ASD	$217,886	Haskins Laboratories, Inc.
Metacognition in comparative perspective	$210,561	University at Buffalo, The State University of New York
Novel regulatory network involving non-coding role of an ASD candidate gene PTEN	$208,750	Albert Einstein College of Medicine of Yeshiva University
Diffusion tensor MR spectroscopic imaging in human brain	$203,715	University of New Mexico Health Sciences Center
The genetic control of social behavior in the mouse (supplement)	$201,966	University of Hawai'i at Manoa
Neurexin-neuroligin trans-synaptic interaction in learning and memory	$200,000	Columbia University
Decoding 'what' and 'who' in the auditory system of children with autism spectrum disorders	$197,500	Stanford University
In vivo targeted gene silencing, a novel method	$192,500	Indiana University-Purdue University Indianapolis
The neural substrates of higher-level learning in autism	$192,500	University of California, Davis
Multisensory integration in children with ASD	$192,136	University of California, Davis
Regulation of spine morphogenesis by NrCAM	$185,000	University of North Carolina at Chapel Hill
A neural model of fronto-parietal mirror neuron system dynamics	$183,960	University of Maryland, College Park
Functional analysis of patient mutations in EPHB2, an ASD candidate gene-Project 1	$177,512	Yale University
Young development of a novel PET ligand for detecting oxytocin receptors in brain (supplement)	$176,000	Emory University
EEG-based assessment of functional connectivity in autism	$175,042	Kennedy Krieger Institute
Role of neurexin in the amygdala and associated fear memory	$175,000	Columbia University
Investigation of social brain circuits in mouse models of the 16p11.2 locus	$175,000	Cold Spring Harbor Laboratory
BRIGE: Emotion mapping of children through human-robot interaction and affective computing	$174,583	University of Louisville Research Foundation Inc
Structural and functional connectivity of large-scale brain networks in autism	$168,978	Stanford University
Identification of candidate genes at the synapse in autism spectrum disorders	$168,839	Yale University
Multimodal brain imaging in autism spectrum disorders	$167,832	University of Washington
Neurobehavioral investigation of tactile features in autism spectrum disorders	$162,666	Vanderbilt University Medical Center
Neural basis of cross-modal influences on perception	$158,282	University of California, San Diego
Structural and functional neuroimaging of the auditory system in autism	$157,905	Children's Hospital of Philadelphia
Motor control and cerebellar maturation in autism	$157,148	University of Texas Southwestern Medical Center
Proteome and interaction networks in autism	$156,250	Harvard Medical School
Functional analysis of EFR3A mutations associated with autism	$156,250	Yale University
Cerebellar plasticity and learning in a mouse model of autism	$156,250	University of Chicago

Project Title	Funding	Institution
Using fruit flies to map the network of autism-associated genes	$156,245	University of California, San Diego
Multimodal imaging of social brain networks in ASD	$150,036	San Diego State University
Neuroligin, oxidative stress and autism	$150,000	Oklahoma Medical Research Foundation
Investigation of a possible role of the protocahderin gene cluster in autism	$150,000	Columbia University
Defining the electrophysiological dynamics of the default mode network	$146,025	University of Washington
The role of Fox-1 in neurodevelopment and autistic spectrum disorder	$145,757	University of California, Los Angeles
Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish	$144,100	Florida International University
Neuropathology of the social-cognitive network in Autism: a comparison with other structural theories	$140,718	University of Oxford
Development of ventral stream organization	$137,338	University of Pittsburgh
RNA dysregulation in autism	$125,000	The Rockefeller University
CLARITY: circuit-dynamics and connectivity of autism-related behavior	$124,320	Stanford University
Neuroimaging of top-down control and bottom-up processes in childhood ASD (supplement)	$111,600	Georgetown University
The computational basis of theory of mind in the human brain	$103,965	California Institute of Technology
Cognitive control of emotion in autism	$102,638	University of Pittsburgh
Action anticipation in infants	$102,258	University of Chicago
Experience and cognitive development in infancy	$102,038	University of California, Davis
The role of neurexin IV in central nervous system development	$100,466	University of California, Los Angeles
Neural synchronydysfunction of gamma oscillations in autism (supplement)	$100,386	University of Colorado Denver
Bayesian variable selection in generalized linear models with missing variables	$95,377	Hunter College (City University of New York)
Linking local activity and functional connectivity in autism (supplement)	$92,508	San Diego State University
Electrophysiological response to executive control training in autism	$89,670	University of Washington
Investigating brain connectivity in autism at the whole-brain level	$88,508	California Institute of Technology
CAREER: Typical and atypical development of brain regions for theory of mind	$86,848	Massachusetts Institute of Technology
Controlling interareal gamma coherence by optogenetics, pharmacology and behavior	$84,775	Massachusetts Institute of Technology
Identification and analysis of ASD patients with PI3K/mTOR signalopathies	$66,500	Emory University
Local connectivity in altered excitation/inhibition balance states	$62,500	Weizmann Institute of Science
Genetic model to study the ASD-associated gene A2BP1 and its target PAC1	$62,500	Weizmann Institute of Science
Endosomal NHE6 in long-range connectivity and autism	$62,500	Brown University
Molecular signatures of autism genes and the 16p11.2 deletion	$62,500	Massachusetts General Hospital

Project Title	Funding	Institution
Social interaction and reward in autism: Possible role for ventral tegmental area	$62,496	University of Geneva
Functional analysis of patient mutations in EPHB2, an ASD candidate gene-Core	$62,475	McLean Hospital
A novel transplantation assay to study human PTEN ASD alleles in GABAergic interneurons	$60,000	University of California, San Francisco
Investigation of social brain circuits and fever-evoked response in 16p11.2 mice	$60,000	Cold Spring Harbor Laboratory
Perturbed cortical patterning in autism	$60,000	Seattle Children's Hospital
Multisensory processing in autism	$60,000	Baylor College of Medicine
Role of major vault protein in autism	$59,972	Yale University
Subependymal zone function in autism spectrum disorders	$59,560	University of Oxford
The effects of autism on the sign language development of deaf children	$59,419	Boston University
Role of GluK6 in cerebella circuitry development	$58,442	Yale University
Characterizing the regulatory pathways and regulation of AUTS2	$57,964	University of California, San Francisco
Multimodal neuroimaging of motor dysfunction in autism spectrum disorders	$56,000	University of Colorado Denver
Functional properties and directed connectivity in the face-processing network	$55,670	Yale University
Understanding the brain basis of impaired imitation learning in autism	$55,200	Kennedy Krieger Institute
Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography	$55,170	Washington University in St. Louis
Multimodal studies of executive function deficits in autism spectrum disorders	$54,570	Massachusetts General Hospital
High metabolic demand of fast-spiking cortical interneurons underlying the etiology of autism	$54,500	Weill Cornell Medical College
Role of CNTNAP2 in neuronal structural development and synaptic transmission	$53,500	Stanford University
Brain electrophysiology of interactive social stimuli	$52,984	Yale University
Cortical dynamics in autism	$52,190	New York University
Role of neuronal migration genes in synaptogenesis and plasticity	$52,190	Weill Cornell Medical College
ERK signaling in autism associated with copy number variation of 16p11.2	$51,290	Case Western Reserve University
Attention & word learning in children with ASD- Translating experimental findings into intervention	$50,600	Women & Infants Hospital
Pathologic and genetic characterization of novel brain cortical patches in young autistic brains	$50,000	University of California, San Francisco
GABAergic dysfunction in autism	$48,000	Johns Hopkins University
Understanding the role of Epac2 in cognitive function	$47,232	Northwestern University

Project Title	Funding	Institution
Identification of genetic pathways that regulate neuronal circuits in C. elegans	$47,114	University of California, San Diego
Behavioral, fMRI, and anatomical MRI investigations of attention in autism	$47,114	Massachusetts Institute of Technology
Roles of miRNAs in regulation of Foxp2 and in autism	$45,000	Louisiana State University
Role of negative regulators of FGF signaling in frontal cortex development and autism	$45,000	University of California, San Francisco
Functional role of IL-6 in fetal brain development and abnormal behavior	$42,232	California Institute of Technology
Molecular controls over callosal projection neuron subtype specification and diversity	$42,232	Harvard University
Examining connectivity patterns of brain networks participating in social cognition in ASD	$40,000	San Diego State University
Integrative functions of the planum temporale (supplement)	$34,768	University of California, Irvine
Presynaptic regulation of quantal size by the cation/H+ exchangers NHE6 & NHE9	$33,932	University of California, Berkeley
Statistical word learning and non-social visual attention in children with autism	$33,148	University of Wisconsin - Madison
Neural mechanisms of imitative behavior: Implications for mental health	$33,128	University of California, Los Angeles
Homeostatic regulation of presynaptic function by dendritic mTORC1	$32,747	University of Michigan
The striatal circuitry underlying autistic-like behaviors	$31,975	Duke University
Elucidation of the developmental role of Jakmip1, and autism-susceptibility gene	$31,474	University of California, Los Angeles
Modulation of RhoA signaling by the mRNA binding protein hnRNPQ1	$30,912	Emory University
Transcriptional regulators in normal human brain development and autism	$30,002	University of California, Los Angeles
Neural underpinning of emotion perception and its disorders	$30,000	Dartmouth College
Abnormal connectivity in autism	$30,000	University of California, Los Angeles
Neuropeptide regulation of juvenile social behaviors	$29,550	Boston College
Pragmatics and semantics in autism spectrum disorder	$29,155	City University of New York Graduate School and University Center
Learning in autism spectrum disorders	$28,902	University of California, Davis
Stimulus preceding negativity and social stimuli in autism spectrum disorder	$28,600	University of California, San Diego
Spatial attention in autism spectrum disorders	$28,600	New York University
Thalamocortical connectivity in children and adolescents with ASD-A combined fcMRI and DTI approach	$28,600	San Diego State University
Enhancing neurobehavioural and clinical definitions in autism spectrum disorders	$28,000	Monash University
Semaphorin4D and PlexinB1 mediate GABAergic synapse development in mammalian CNS	$27,814	Brandeis University
The neural bases of top-down attentional control in autism spectrum disorders	$27,578	City College of New York

Project Title	Funding	Institution
Using high definition fiber tracking to define developmental neurobiologic mechanisms & a neural basis for behavioral heterogeneity	$25,000	Carnegie Mellon University
Neuroprotective effects of oxytocin receptor signaling in the enteric nervous system	$25,000	Columbia University
Elucidating the function of class 4 semaphorins in GABAergic synapse formation (supplement)	$23,015	Brandeis University
The neural substrates of social interactions	$15,865	University of Iowa
Behavioral and neural responses to emotional faces in individuals with ASD	$14,935	Harvard University
The neural basis of weak central coherence in autism spectrum disorders	$13,040	Yale University
Extended tracking of single synaptic proteins with upconverting nanoparticles	$10,819	University of California; Lawrence Berkeley National Laboratory
A preliminary investigation of the neurobehavioral basis of sensory behavior in autism	$10,000	Kennedy Krieger Institute
Urokinase-type plasminogen activator plasma concentration and its relationship to hepatocyte growth factor (HGF) and GABA levels in autistic children	$8,505	Hartwick College
CAREER: Statistical models and classification of time-varying shape	$8,000	University of Utah
3 Tesla 31Phosphorus magnetic resonance spectroscopy in disorder with abnormal bioenergetics	$3,250	Massachusetts General Hospital
The effects of autism on the sign language development of deaf children (supplement)	$1,188	Boston University
Eye movement dynamics in autism spectrum disorders	$0	Carnegie Mellon University
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	$0	Research Foundation for Mental Hygiene, Inc.
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	$0	Research Foundation for Mental Hygiene, Inc.
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	$0	Research Foundation for Mental Hygiene, Inc.
Autism spectrum disorders and the visual analysis of human motion	$0	Rutgers, The State University of New Jersey
Regulation of synaptogenesis by cyclin-dependent kinase 5	$0	Massachusetts Institute of Technology
PI3K/mTOR signaling as a novel biomarker and therapeutic target in autism	$0	Emory University
Investigating brain organization and activation in autism at the whole-brain level	$0	California Institute of Technology
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	$0	Hospital Riviere-des-Praires, University of Montreal, Canada
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	$0	University of Pittsburgh
The role of the GRIP protein complex in AMPA receptor trafficking and autism spectrum disorders	$0	Johns Hopkins University

Project Title	Funding	Institution
Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	$0	Carnegie Mellon University
Deciphering the function and regulation of AUTS2	$0	University of California, San Francisco
Macrocephalic autism: Exploring and exploiting the role of PTEN	$0	University of Wisconsin - Madison
Development of brain connectivity in autism	$0	New York School of Medicine
Preference acquisition in children and adolescents with and without autism spectrum disorder	$0	Dalhousie University
Exploring the uncanny valley	$0	Carnegie Mellon University
Collaborative research: Learning complex auditory categories	$0	Carnegie Mellon University
Collaborative research: RUI: Perceptual pick-up processes in interpersonal coordination	$0	College of the Holy Cross
Face perception: Mapping psychological spaces to neural responses	$0	Stanford University
Synchronous activity in networks of electrically coupled cortical interneurons	$0	University of California, Davis
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	$0	Cornell University
CAREER: The role of prosody in word segmentation and lexical access	$0	Michigan State University
CAREER: Dissecting the neural mechanisms for face detection	$0	California Institute of Technology
How autism affects speech understanding in multitalker environments	$0	University of Maryland, College Park
Head-fixed recording of sensory learning in mouse autism models	$0	Princeton University
Transcriptional responsiveness in lymphoblastoid cell lines	$0	University of Pennsylvania
Dimensions of mind perception	$0	Harvard University
The role of CNTNAP2 in embryonic neural stem cell regulation	$0	Johns Hopkins University School of Medicine
Functional analysis of neurexin IV in Drosophila	$0	University of California, Los Angeles
CDI-TYPE II: From language to neural representations of meaning	$0	Carnegie Mellon University
HCC:Small:Computational studies of social nonverbal communication	$0	University of Southern California
Multiple systems in theory of mind development	$0	Rutgers, The State University of New Jersey - New Brunswick
Neural basis of empathy and its dysfunction in autism spectrum disorders (ASD)	$0	Duke University
Role of autism-susceptibility gene, CNTNAP2, in neural circuitry for vocal communication	$0	University of California, Los Angeles
MTHFR functional polymorphism C677T and genomic instability in the etiology of idiopathic autism in simplex families	$0	Queen's University
White matter glial pathology in autism	$0	East Tennessee State University
Serotonin signal transduction in two groups of autistic patients	$0	University of Illinois at Chicago
Early expression of autism spectrum disorder in experimental animals	$0	Neurochlore
Self-injurious behavior: An animal model of an autism endophenotype	$0	University of Florida

Project Title	Funding	Institution
Excessive cap-dependent translation as a molecular mechanism underlying ASD	$0	New York University
Developing novel automated apparatus for studying battery of social behaviors in mutant mouse models for autism	$0	Weizmann Institute of Science
Collaborative research: Modeling perception and memory: Studies in priming	$0	University of California, San Diego
Neural mechanisms underlying an extended multisensory temporal binding window in ASD	$0	Vanderbilt University
Behavioral and neural correlates of reward motivation in children with autism spectrum disorders	$0	University of North Carolina at Chapel Hill
Social behavior deficits in autism: Role of amygdala	$0	State University of New York Upstate Medical Center
Infants' developing representation of object function	$0	University of California, Davis
Development of a connectomic functional brain imaging endophenotype of autism	$0	University of Cambridge
Using near-infrared spectroscopy to measure the neural correlates of social and emotional development in infants at risk for autism spectrum disorder	$0	University of New South Wales
Stimulus-driven attention deficits in autism	$0	University of Minnesota
Collaborative research: Learning complex auditory categories	$0	University of Arizona